REMARKS/ARGUMENTS

Claims 1-21 are present in this application. By this Amendment, claim 10 has been amended. Reconsideration in view of the above amendments and the following remarks is respectfully requested.

Entry of this Amendment is proper under 37 C.F.R. §1.116 because the Amendment: (a) places the application in condition for allowance for the reasons discussed herein; (b) does not raise any new issues requiring further search and/or consideration (since the amendments amplify issues previously discussed throughout prosecution and raised by the Examiner in the previous Office Action, and since the subject matter added in claim 10 was taken from claim 21, which has already been considered by the Examiner); (c) does not present any additional claims without canceling the corresponding number of finally-rejected claims; and (d) places the application in better form for appeal, should an appeal be necessary. The Amendment was necessary and was not earlier presented because it is made in response to arguments raised in the final rejection. Entry of the Amendment is thus respectfully requested.

Claims 10, 12, 13 and 20 were rejected under 35 U.S.C. §103(a) over U.S. Published Patent Application No. 2003/0181302 to Kaiser et al. in view of U.S. Patent No. 5,763,345 to Ohshima et al. In paragraph 7, claim 21 was rejected under 35 U.S.C. §103(a) on the same grounds. These rejections are respectfully traversed.

Claim 10 has been amended to recite that the clay is either elutriated or subjected to a wet sizing separation purification process, similar to claim 21. The Office Action recognizes that Kaiser lacks a teaching of the clay being elutriated. In this context, the Office Action contends that Ohshima discloses that it is well known in the art to purify natural clay by elutriation, referring to col. 1, lines 35-36. This section in Ohshima, however, only references elutriation of

clay as a disadvantageous process ("it is practically impossible to remove [the] impurities by elutriation and chemical treatment without deteriorating the characteristic properties of clay"). There is no other mention in Ohshima of elutriation of clay. Applicants thus respectfully submit that this description in Ohshima would <u>not</u> lead those of ordinary skill in the art to elutriate clay for a disc roll as defined in claims 10 and 21. Ohshima in fact teaches away from the modification proposed in the Office Action.

The Federal Circuit has repeatedly held that, as a "useful general rule," references that teach away cannot serve to create a *prima fucie* case of obviousness. See, for example, *In re Gurley*, 27 F.3d 551, 553 (Fed. Cir. 1994). If references taken in combination would produce a "seemingly inoperative device," the Federal Circuit has held that such references teach away from the combination and thus cannot serve as predicates for a *prima fucie* case of obviousness. See, *In re Sponnoble*, 405 F.2d 578, 587 (CCPA 1969) ("references teach away from combination if combination produces seemingly inoperative device"). See also, *McGinley v. Franklin Sports Inc.*, 262 F.3d 1339 (Fed. Cir. 2001).

The Federal Circuit's decision in *In re Gurley* provides further guidance on this issue, particularly in relevant to the discussion in the Ohshima patent with regard to the purported "disadvantageous" elutriation process. In particular, the Federal Circuit provided that "[a] reference may be said to teach away when a person of ordinary skill, upon reading the reference, would be discouraged from following the path set out in the reference, or would be led in a direction divergent from the path that was taken by the applicant. The degree of teaching away will of course depend on the particular facts; in general, a reference will teach away if it suggests that the line of development flowing from the reference's disclosure is unlikely to be productive of the result sought by the applicant." See *United States v. Adams*, 383 U.S. 39, 52, 148 USPQ

479, 484 (1966) ("known disadvantages in old devices which would naturally discourage the search for new inventions may be taken into account in determining obviousness"). *In re Gurley*. Moreover, the Federal Circuit further provided that "[a] reference will teach away if it suggests that the line of development flowing from the reference's disclosure is unlikely to be productive of the result sought by the applicant." *Id*.

Even under the Supreme Court's decision in KSR International Co. v. Teleflex Inc., the factual inquiries in Graham v. John Deere Co. are still the basis for determining obviousness under §103. As part of resolving the Graham inquiries, it is important to include findings as to how a person of ordinary skill in the art would have understood prior art teachings. In the present context, Ohshima discloses that elutriation is ineffective, and consequently, it is apparent that a person of ordinary skill would not have been led to modify the Kaiser publication in view of Ohshima. Moreover, KSR references combining prior art elements according to known methods to yield predictable results. As taught by Ohshima, utilizing elutriation of clay in Kaiser would be ineffective. KSR also references utilizing known techniques to improve similar devices. In this regard, since Ohshima references the disadvantageous nature of elutriation, according to Ohshima, use of elutriation in Kaiser would not in any manner improve Kaiser as required by KSR.

Applicants thus respectfully submit that the rejection of independent claims 10 and 21 is misplaced.

With regard to dependent claims 12, 13 and 20, Applicants submit that these claims are allowable at least by virtue of their dependency on an allowable independent claim.

Reconsideration and withdrawal of the rejections are respectfully requested.

NAKAYAMA et al. Appl. No. 10/812,304

August 5, 2008

Claim 11 was rejected under 35 U.S.C. §103(a) over Kaiser in view of Ohshima and U.S.

Patent No. 4,533,581 to Asaumi et al. The Asaumi patent, however, does not correct the

deficiencies noted above with regard to Kaiser and Ohshima, taken singly or in combination. As

such, Applicants submit that this dependent claim is allowable at least by virtue of its

dependency on an allowable independent claim. Withdrawal of the rejection is requested.

In view of the foregoing amendments and remarks, Applicants respectfully submit that

the claims are patentable over the art of record and that the application is in condition for

allowance. Should the Examiner believe that anything further is desirable in order to place the

application in condition for allowance, the Examiner is invited to contact Applicants'

undersigned attorney at the telephone number listed below.

Prompt passage to issuance is earnestly solicited.

Respectfully submitted,

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